

SPECIAL STATISTICS

- AQUACULTURE
- AGRICULTURAL LABOR
- FERTILIZER CONSUMPTION

AQUACULTURE: Number of operations, production, and value, by counties, 1995-99

Year	Number of operations	Production			Value				
		Shellfish ¹	Finfish	Algae	Shellfish	Finfish	Algae	Other ²	Total
----- 1,000 pounds ----- 1,000 dollars -----									
State									
1995	107	414.6	125.2	869.8	3,462.4	769.5	8,685.9	388.7	13,306.5
1996	117	616.8	129.2	1,245.9	4,315.5	1,191.6	9,082.4	1,066.2	15,655.7
1997	110	NA	NA	NA	4,960.0	950.0	8,295.0	2,395.0	16,600.0
1998	105	700.4	218.0	1,324.7	4,959.9	958.0	8,294.9	2,406.9	16,619.7
1999	100	996.0	215.0	1,193.0	6,393.0	1,010.0	7,883.0	2,816.0	18,102.0
Counties:									
Hawaii									
1995	40	262.1	40.0	753.8	2,569.6	342.3	8,428.7	61.6	11,402.2
1996	43	432.8	66.6	1,113.1	3,188.7	764.9	8,779.1	464.6	13,197.3
1997	NA	NA	NA	NA ₃	NA	NA ₃	NA ₃	NA	13,380.0
1998	44	485.3	44.8		3,647.5			1,476.4	13,382.5
1999	42	475.0	86.0	1,022.0	3,513.0	562.0	7,473.0	1,829.0	13,377.0
Honolulu									
1995	38	112.5	75.1	116.0	652.6	389.0	257.2	326.4	1,625.2
1996	44	124.0	47.5	132.8	776.8	373.9	303.3	601.6	2,055.6
1997	NA	NA ₃	NA	NA ₃	NA	NA ₃	NA ₃	NA	2,120.0
1998	46		130.5		1,013.4			279.5	2,099.6
1999	44	222.0	114.0	₃	1,370.0	408.0	₃	241.0	2,333.0
Kauai									
1995	11	NA	NA	NA	NA	NA	NA	NA	NA
1996	11	NA	NA	NA	NA	NA	NA	NA	NA ₃
1997	NA	NA	NA ₃	NA	NA	NA ₃	NA	NA ₃	₃
1998	3								
1999 ³									
Maui									
1995	18	40.0	10.1	0	240.2	38.2	0	.7	279.1
1996	19	60.0	15.1	NA	350.0	52.8	NA	NA	402.8 ₃
1997	NA	NA ₃	NA ₃	NA ₃	NA ₃	NA ₃	NA ₃	NA ₃	₃
1998	12								
1999	10	₃	₃	₃	₃	₃	₃	₃	₃

NA = Not available.

¹ Some shellfish products sold by pieces, pounds not given.

² Non-food products: ornamental fish, seed stock, other. Items not sold by weight.

³ Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

Source: 1995 and 1996, Hawaii State Department of Agriculture, Aquaculture Development Program.

LABOR

AGRICULTURAL LABOR: Workers on farms, annual and quarterly averages, State of Hawaii, 1995-99¹

Year	Total farm employment			Hired workers by type of farm		
	Self-employed farm operators	Unpaid workers ²	Hired workers ³	Sugar	Pineapple	Other
1995	2,700	1,000	7,300	1,700	1,200	4,400
1996	2,700	1,000	7,400	1,400	1,200	4,800
1997	2,700	1,200	7,000	1,200	1,300	4,500
1998	2,700	1,200	7,400	1,200	1,200	5,000
1999	3,000	1,200	7,600	1,200	1,300	5,200
January	2,600	1,100	7,100	1,150	1,150	4,800
April	2,500	1,100	6,900	1,200	1,200	4,500
July	3,500	1,200	8,000	1,200	1,450	5,350
October	3,400	1,200	8,400	1,050	1,250	6,100

¹ Averages are based on data collected from the January, April, July, and October surveys.

² Includes family members and others working 15 or more hours per week.

³ Sum of hired workers by type of farm may not add to hired workers total due to rounding.

AGRICULTURAL LABOR: Annual average number of workers on farms, by counties, 1995-99¹

Year	Self-employed farm operators	Unpaid workers ²	Hired workers	Year	Self-employed farm operators	Unpaid workers ²	Hired workers
Counties:							
Hawaii				Kauai			
1995	1,750	550	2,550	1995	200	150	1,000
1996	1,800	600	2,600	1996	200	100	1,000
1997	1,800	700	2,450	1997	200	100	850
1998	1,750	650	2,550	1998	200	100	800
1999	1,850	600	2,400	1999	250	100	900
Honolulu				Maui			
1995	500	250	1,900	1995	300	100	1,850
1996	450	200	2,000	1996	300	150	1,850
1997	500	300	1,900	1997	300	100	1,850
1998	450	250	2,100	1998	350	150	1,950
1999	500	300	2,100	1999	450	200	2,200

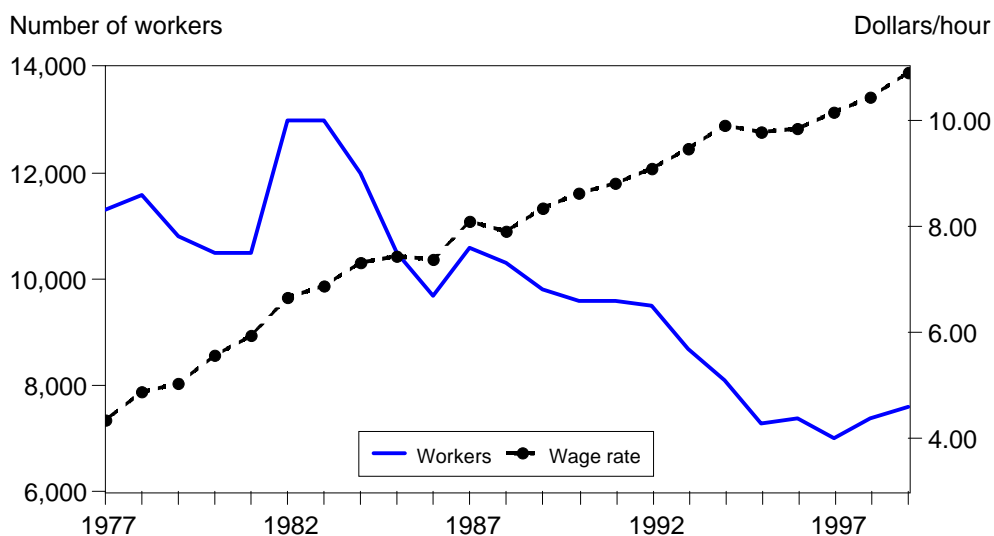
¹ Averages are based on data collected from the January, April, July, and October surveys.

² Includes family members and others working 15 or more hours per week.

AGRICULTURAL LABOR: Wage rates by type of work, annual and quarterly averages, State of Hawaii, 1995-99

Year	Type of work performed			
	All farms		Farms with 1-9 workers	
	Field/livestock	All hired workers	Field/livestock	All hired workers
1995	8.60	9.76	7.08	7.72
1996	8.62	9.83	6.95	7.50
1997	8.83	10.15	6.82	7.65
1998	8.97	10.41	7.27	8.03
1999	9.38	10.88	7.76	8.63
January	9.35	10.80	7.68	8.67
April	9.38	10.93	7.57	7.80
July	9.53	10.88	8.17	8.61
October	9.24	10.91	7.51	9.19

Hired Work Force and Average Wage Rate, State of Hawaii, 1977-99



Number of workers is average of January, April, July, and October surveys, except 1981 January and April, 1982-83 July and 1984 July and October.

HASS

FERTILIZER

FERTILIZER: Commercial consumption, State of Hawaii, 1995-99

Type	Year ending June 30				
	1995	1996	1997	1998	1999

Commercial fertilizers - Short tons

Total fertilizer	109,478	109,478	109,478	112,762	98,103
Total N	16,828	16,828	16,828	17,333	15,080
N in multi-nutrients	6,786	6,786	6,786	6,990	6,081
Total P ₂ O ₅	5,719	5,719	5,719	5,890	5,125
P ₂ O ₅ in multi-nutrients	5,608	5,608	5,608	5,776	5,025
Total K ₂ O	12,991	12,991	12,991	13,381	11,641
K ₂ O in multi-nutrients	9,006	9,006	9,006	9,276	8,071
Total plant nutrients	35,538	35,538	35,538	36,604	31,845
Average analysis	33.7	33.7	33.7	33.7	33.7
Total in multi-nutrients	21,400	21,400	21,400	19,177	19,177

Selected single-nutrient materials - Short tons of material

Nitrogen solutions	18,236	18,236	18,236	18,783	16,341
Urea	2,480	2,480	2,480	2,554	2,222
Ammonium sulfate	909	15,285	15,285	15,744	13,697
Concentrated superphosphate	172	172	172	178	155
Secondary and micronutrients	4,144	4,144	4,144	4,269	3,714
Potash materials (chloride)	494	494	494	509	443
Potash materials (sulfate)	845	845	845	870	757

Consumption of fertilizers by class - Short tons of material

Total dry single-nutrient	28,423	28,423	28,423	29,275	25,470
Total dry multiple-nutrient	32,936	32,936	32,936	33,924	29,514
Fluid single-nutrient	25,583	25,583	25,583	26,350	22,925
Fluid multiple-nutrient	18,392	18,392	18,392	18,943	16,481
Total single-nutrient	54,005	54,005	54,005	55,625	48,394
Total multiple-nutrient	51,328	51,328	51,328	52,868	45,995

Consumption of multiple-nutrient fertilizers - Short tons of material

N-P-K	45,031	45,031	45,031	46,382	40,353
N-P	6,297	6,297	6,297	6,485	5,642

Source: The Association of American Plant Food Control Officials.

DEFINITION OF TERMS

AGRICULTURE entails all operations performed on a "farm" in connection with planting, growing, and harvesting of crops; raising and feeding of livestock and poultry, and management. All operations in connection with preparation of farm products for market where the preparation does not alter the form of the product and transportation to the first delivery point. In Hawaii, the first delivery point is defined as the processing plant or packinghouse door or other receivers' establishment for marketings on the island of production. For off-island marketings, the first delivery point is generally the shipper's warehouse.

FARM is a place with estimated (or expected) annual sales of agricultural products of at least \$1,000.

CROP PRODUCTION is the estimated amount of crop harvested and transferred at the first delivery point. Production estimates of vegetables and fruits include the quantity for fresh market and processing use.

ACREAGE IN CROP is the total acreage standing in a specific crop regardless of age or condition unless it has been declared abandoned by the operator.

ACREAGE HARVESTED is the total area harvested or partially harvested during the reporting period. A permanent or semi-permanent planting that was harvested for only a portion of the year is counted in its entirety. Acreage lost before maturity due to natural or economic factors is not included. Acreage harvested and planted repeatedly during the year is counted each time.

YIELD is the average production per acre of merchantable quality harvested and sold or utilized. This is derived by dividing total production by harvested acres.

LIVESTOCK OPERATION is defined as a place that has one or more head of the species on hand at any time during the year. It does not have to meet the definition of a farm.

LIVESTOCK PRODUCTION is the estimated amount of livestock and livestock products sold. This includes allowance for amount used on farms where produced.

FARM PRICE is a computed price to value agricultural production which may or may not reflect the average price at which actual transfer of ownership took place but which is comparable with the definition of "agriculture". See "agriculture" for the definition of pricing point.

MARKET SUPPLY includes pounds of product sold in Hawaii to both Armed Forces and civilians (outshipments excluded) plus products shipped in for civilian use. Direct inshipments to the Armed Forces are excluded.

SAMPLING METHODS AND ESTIMATION

The Hawaii Agricultural Statistics Service uses a variety of sampling techniques to produce current agricultural statistics about crops, livestock, prices, farm labor, and other information relating to the agricultural economy.

Data is collected, summarized and estimates are prepared. These estimates then pass through the Agricultural Statistics Board of the U. S. Department of Agriculture where, for major items, Hawaii estimates become part of National totals and enter the official data base for agriculture. National and State estimates are published according to a schedule set one year in advance.

The Hawaii Agricultural Statistics Service conducts many of its surveys by virtually complete **ENUMERATION** of certain parts of the population. This is unusual compared to procedures in other states but is feasible in Hawaii due to the relatively small size of certain categories of the farm universe or the extreme concentration of ownership.

LIST SAMPLING is a common means of data collection. Lists of farm operators are well suited for the low cost collection of information by mail. Supplementary information is included within the frame that allows the use of efficient stratified sample designs. A major disadvantage of this method is the constant change in the list frame which can never be perfect. In Hawaii, cattle, hog, macadamia nut and coffee surveys are examples of stratified list sample designs.

AREA FRAME SAMPLING can be used alone or in conjunction with the list frame. The frame consists of an aggregation of identifiable units of land or segments which may be sampled. The frame is complete and does not suffer the type of deterioration over time as does a list frame.

MULTIPLE-FRAME SAMPLING is the use of two frames. It takes advantage of the best attributes of the area frame and the list frame, produces unbiased estimates and allows measurement of the sampling error.

OBJECTIVE YIELD SURVEYS provide information from direct counts, measurements and weights of the crop made from small plots in a probability selection of sample fields.

ADMINISTRATIVE DATA is used in addition to producer surveys to establish final production and marketings. These include processor receipts, slaughter, vacuum cooler volume, and inspections. Unloads at Honolulu and wholesale prices as reported by the Market Analysis and News Branch, are an important check data source.

REPORTS

Title and Description	Release date
CROPS	
AVOCADOS: Annual summary of acreage, yield, production, farm price, and value	May
BANANAS:	
- Monthly report on sales, farm price, and production forecast	Last week of the month
- Annual summary of acreage, yield, production, farm price, and value	May
COFFEE:	
- Preliminary season estimates of acreage, yield, production, farm price, and value	December
- Final season estimates of acreage, yield, production, farm price, and value	August
FRUITS:	
- Annual summary of fresh and processed fruit production, acreage, farm price, and value	September
- Annual summary of tropical specialty fruits - acreage, production, and value	August
GINGER ROOT: Annual summary of acreage, yield, production, farm price, and value. Planting intentions for next season	August
GUAVAS: Annual summary of acreage, yield, production, farm price, and value	June
HERBS: Annual summary of fresh production, farm price, and value	August
MACADAMIA NUTS:	
- Preliminary season estimates of acreage, yield, production, farm price, and value	January
- Final season estimates of acreage, yield, production, farm price, and value	July
PAPAYAS: Data on acreage, utilization, and farm price	Mid-month
PINEAPPLES: Annual summary of acreage, production, farm price, and value	February
SEED CROP: Annual summary of acreage, outshipments of seed, and value	October
SUGARCANE: Estimates of acreage and production for all major U.S. producing areas	August-November
TARO:	
- Quarterly summary of taro milled for poi	Jan., Apr., Jul., Oct.
- Annual estimates of acreage in crop, production, and farm prices for Chinese and wetland taro varieties	January
VEGETABLES:	
- Monthly summary of acreage, sales, and farm price for selected major vegetables and melons. Includes forecast of production and harvested acreage	Second week of month
- Annual summary of acreage, production, and value for all vegetables and melons	May
FLORICULTURE AND NURSERY PRODUCTS	
FLORICULTURE AND NURSERY PRODUCTS: Annual summary of area, production, and value	June
POINSETTIAS: Fall report of plant inventory and past year sales	October
LIVESTOCK	
LIVESTOCK REVIEW: Monthly hog and cattle slaughter, cattle outshipment, pasture conditions, number of milk cows and milk production, number of layers and egg production, and farm prices	Last week of month
CATTLE: Annual report of inventory and calf crop as of January 1	February
HOGS: Annual report of inventory and pig crop as of December 1	January
HONEY: Annual summary of colonies, production, yield, farm price, and value	February
OTHER PUBLICATIONS	
AQUACULTURE: Summary of operations, production, and value	September
CROP WEATHER: Weekly comments on weather and crop conditions. Rainfall data for selected stations	First working day of week
FARM LABOR: Quarterly report on number of workers by type and average wage rates	Feb., May, Aug., Nov.
STATISTICS OF HAWAII AGRICULTURE: A statistical summary of the State's agricultural sector	October

To order: Any of the above reports may be obtained by contacting the Hawaii Agricultural Statistics Service, P.O. Box 22159, Honolulu, HI 96823-2159, (808) 973-9588. Most of our publications are available on the Internet at: <http://www.nass.usda.gov/hi/risetoc.htm>.

DIRECTORY FOR INFORMATION

Additional Information relating to U.S. and World Agriculture can be obtained by contacting the following USDA economic agencies:

National Agricultural Statistics Service (NASS): NASS reports estimate production, stocks, inventories, disposition, utilization, and prices of agricultural commodities, and other items such as labor and farm numbers.

Economic Research Service (ERS): ERS situation and outlook reports and periodicals analyze the current situation and forecast market conditions. ERS monographs offer economic analysis in the areas of trade, production, rural development, farm inputs, and other topics.

World Agricultural Board (WAOB): WAOB issues regular forecasts of U.S. and world supply and demand prospects for major agricultural commodities.

For a free catalog that lists the products available from NASS, ERS, and WAOB call the **toll free** order desk at **1-800-999-6779**.

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Hawaii Banana Industry Association
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3190 Maile Way
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Big Island Beekeepers Association
105 Halaulani Pl.
Hilo, HI 96720

Hawaii Beekeepers Association
2115 North School St.
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Hawaii Beef Industry Council
Beef Promotion Committee
P.O. Box 1166
Ewa Beach, HI 96706

Kona Coffee Council
P.O. Box 2077
Kealahou, HI 96750

Kona Pacific Farmers Cooperative
P.O. Box 309
Captain Cook, HI 96704

Hawaii Coffee Association
Box 179-250 Ward Ave. Suite 160
Honolulu, HI 96814-4013

Big Island Dendrobium Growers
Association of Hawaii
P.O. Box 4153
Hilo, HI 96720

Dendrobium Orchid Growers
Association of Hawaii (DOGAH)
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Wahiawa, HI 96786

West Hawaii Orchid Growers
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(808) 965-5444

Fresh Milk Industry of Hawaii
94-210 Pupukahi St. Rm 201
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Big Island Association of Nurserymen
P.O. Box 4365
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Landscape Industry Council of Hawaii
Ms. Karen Bento
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Hawaii Association of Nurserymen
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Hawaii Export Nursery Association
Ms. Jo Ann Johnston
P.O. Box 771
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(808) 969-2088

Papaya Administrative Committee
Mr. Emerson Llantero
230 Kekuanaoa St.
Hilo, HI 96720
(808) 969-1160

Pineapple Growers Association of
Hawaii
1116 Whitmore Ave.
Wahiawa, HI 96786

Hawaii Pork Industry Association
C/O Hawaii Food Products
94-403 Ukee St.
Waipahu, HI 96797

Hawaii Fryer's Council
C/O Pacific Poultry Co.
1818 Kananui St.
Honolulu, HI 96819

Hawaii Protea Association
P.O. Box 425
Kula, HI 96790

Hawaii Tropical Flowers Foliage
Association
P.O. Box 817
Kaneohe, HI 96744

Hawaii Tropical Flowers Council
P.O. Box 4306
Hilo, HI 96720
(808) 961-5555

Tropical Fruit Growers Association
260 Kamehameha Ave. Suite 209
Hilo, HI 96720
(808) 981-0253

Kauai Taro Farmers Association
P.O. Box 427
Hanalei, HI 96714

Kamuela Farmers Cooperative
Association
P.O. Box 25
Kamuela, HI 96743

Maui Farmer's Cooperative Exchange
970 B Lower Main St.
Wailuku, HI 96793

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Cover photo:	Romaine lettuce fields on the Kiyotsugu Hirako farm, Waimea (Kamuela) Island of Hawaii. Courtesy of Dwight Sato, Cooperative Extension Service, University of Hawaii at Manoa, College of Tropical Agriculture and Human Resources
General summary:	Taro fields, courtesy of the Hawaii Department of Agriculture staff, page 2.
Fruits:	Mangoes, courtesy of the Hawaii Department of Agriculture staff, page 35.
Vegetable, Melon, and Taro:	Specialty crops farmer Dean J. Okimoto, Nalo Farms, Inc., Waimanalo, Oahu, Hawaii. Courtesy of the Hawaii Department of Agriculture staff, page 46.
Special Statistics:	Vegetable farm, courtesy of the Hawaii Department of Agriculture staff, page 58.